

From wang!elf.wang.com!ucsd.edu!info-hams-relay Mon Mar 4 08:29:01 1991 remote
from tosspot
Received: by tosspot (1.63/waf)
via UUCP; Mon, 04 Mar 91 17:39:41 EST
for lee
Received: from somewhere by elf.wang.com id aa10555; Mon, 4 Mar 91 8:28:59 GMT
Received: from ucsd.edu by uunet.UU.NET with SMTP
(5.61/UUNET-primary-gateway) id AA27027; Mon, 4 Mar 91 03:09:49 -0500
Received: by ucsd.edu; id AA17124
sendmail 5.64/UCSD-2.1-sun
Sun, 3 Mar 91 22:04:38 -0800 for nixbur!schroeder.pad
Received: by ucsd.edu; id AA17102
sendmail 5.64/UCSD-2.1-sun
Sun, 3 Mar 91 22:04:31 -0800 for /usr/lib/sendmail -oc -odb -oQ/var/spool/
lqueue -oi -finfo-hams-relay info-hams-list
Message-Id: <9103040604.AA17102@ucsd.edu>
Date: Sun, 3 Mar 91 22:04:29 PST
From: Info-Hams Mailing List and Newsgroup <info-hams-relay@ucsd.edu>
Reply-To: Info-Hams@ucsd.edu
Subject: Info-Hams Digest V91 #196
To: Info-Hams@ucsd.edu

Info-Hams Digest Sun, 3 Mar 91 Volume 91 : Issue 196

Today's Topics:

AMSAT BULLETIN 061.01
AMSAT ORBITAL ELEMENTS
Ham Radio Recommendations, FAQ list
Ham Radio Suggestions (was Re: Kenwood TH-27A)
HF recomendations
Icom 725 mods wanted...
Looking for mod info on Radio Shack PRO-2022 scanner
MODS FTP SITES
PROPAGATION FORECAST BULLETIN 7 ARLP007

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 4 Mar 91 00:27:31 GMT
From: n8emr!gws@tut.cis.ohio-state.edu (Gary Sanders)
Subject: AMSAT BULLETIN 061.01
To: info-hams@ucsd.edu

=====
| Relayed from AMSAT BBS NETWORK |
| N8EMR's Ham BBS, 614-895-2553 1200/2400/9600/V.32/PEP/MNP5 |
=====

SB ALL @ AMSAT \$ANS-061.01
AO-21 SPEAKS ITS FIRST WORDS

HR AMSAT NEWS SERVICE BULLETIN 061.01 FROM AMSAT HQ
SILVER SPRING, MD MARCH 1, 1991
TO ALL RADIO AMATEURS BT

AMSAT-OSCAR-21 (AO-21) Informs The World Its "Circuits Are Operational"

This past week radio amateurs around the world heard the voice of the recently launched AO-21. The voice message, coming from the AO-21 downlink frequency of 145.983 MHz spoke the following words: "I'm completely operational and my circuits are functioning perfectly." This voice mode is referred to as Mode 8 among the AMSAT-DL and AMSAT-U-ORBITA groups responsible for AO-21's design and assembly. At this time it is not known how often Mode 8 will be in operation on AO-21. Also, engineering checkout is still ongoing and it could be some time before the operational schedule for AO-21 is known. Users should monitor the downlink of 145.983 MHz to see which mode AO-21 is currently operating. As soon as a schedule is available from AMSAT-DL, it will be published immediately in the AMSAT News Service (ANS) bulletins and announced on all AMSAT HF and VHF nets.

/EX
SB ALL @ AMSAT \$ANS-061.02
BRIEF MICROSAT UPDATE

HR AMSAT NEWS SERVICE BULLETIN 061.02 FROM AMSAT HQ
SILVER SPRING, MD MARCH 2, 1991
TO ALL RADIO AMATEURS BT

Quick Status Report on Microsats

LO-19 crashed during a pass over the U.S. early on Saturday, March 2, 1991 UTC. At press time, the reason for the crash was being ascertained from satellite memory dumps. A reload, coordinated between Microsat software developers and the LUSAT command group in Argentina, was pending.

WO-18 was recovered from a crash last weekend (February 22) and reloaded.

Picture taking activities were expected to resume nearly immediately at press time.

DO-17. Now that a reasonable amount of experience has been obtained from the other Microsat missions (AO-16, WO-18 and LO-19) and they are largely under the control of their operational teams, software development priority has been shifted to DOVE. Due to the special circumstances of DOVE controlling, this conservative approach is considered to be the only prudent way to develop this precious and powerful resource. The Microsat hardware and software development teams are to be congratulated on this, the final chapter in a long development process of four complete and independent satellite missions! (Five complete satellite missions counting the parallel software development undertaken on UO-14.) As progress is made with DOVE, and in coordination with BRAMSAT, packet bulletins (such as ANS) are expected to appear first followed by voice experiments.

AO-16 performed nominally and logged nearly 1000 messages in the space of one month. Some of these messages were of considerable length, several tens of kilobytes. Gateway service to AKNET to Alaska had handled several dozen messages which would previously have taken considerably longer and riskier HF routes. LO-19 was being used for this task as well. Watch AMSAT publications for information about this Gateway and ideas on how to set up others. The Pacsat team is particularly interested in providing Gateway service to remote areas not now well served by other packet systems.

AO-16 crashed about 12 hours after LO-19 on 2 March 91 UTC. The AMSAT-NA Operations command team and pacsat software developers were reviewing the situation at press time. Depending on the cause of the problem, the file server is expected to be back on within a week. Please do not transmit to the satellite when the digi is off. This will only slow uploading of new software.

/EX

SB ALL @ AMSAT \$ANS-061.03
EXPERIMENTERS DAY SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 061.03 FROM AMSAT HQ
SILVER SPRING, MD MARCH 2, 1991
TO ALL RADIO AMATEURS BT

PACSAT Experimenter's Day Operations Schedule Set

The schedule for future PACSAT Experimenter's Day operations is:

DATE	START TIME	END TIME
06 March	0454 UTC - 06 March	0428 UTC - 07 March

13 March	2215 UTC - 12 March	2145 UTC - 13 March
20 March	0500 UTC - 20 March	0430 UTC - 21 March
27 March	0320 UTC - 27 March	0255 UTC - 28 March
03 April	0505 UTC - 03 April	0615 UTC - 04 April

While operation of the S-Band and raised cosine PSK transmitters is scheduled to be conducted weekly, users are cautioned that these operations may be shortened or canceled to allow uploading of improved spacecraft software. Watch for bulletins in the BBS and the telemetry text frame of AO-16 for changes to the schedule.

[ANS thanks Bruce Rahn, WB9ANQ for the information for this bulletin]

/EX

SB ALL @ AMSAT \$ANS-061.03
OPERATIONS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 061.03 FROM AMSAT HQ
SILVER SPRING, MD MARCH 2, 1991
TO ALL RADIO AMATEURS BT

AMSAT-NA Operations Net Schedule

AMSAT Operations Nets are planned for the following times. Mode B nets are conducted on an AO-13 downlink frequency of 145.950. Mode J/L nets are conducted on an AO-13 downlink frequency of 435.970.

Date	UTC	Mode	Phs	NCS	Alt.	U.S. day
10 Mar 91	0315	J/L	166	WA5ZIB	WD0E	Saturday
17 Mar 91	0400	B	100	N5BF	WB6LLO	Saturday
23 Mar 91	1400	B	216	KA5SMA	WB9ANQ	Saturday

The Operations Net features guest speakers approximately every other week to provide up-to-the-minute information on topics of interest to various sorts of satellite users. Watch ANS for information on guest speakers and topics. AMSAT Vice President for Manned Projects, Bill Tynan, W3X0 is scheduled as the guest on the 10 March 91 session. He is expected to discuss SAREX (particularly the upcoming STS-37 mission) and preparations for AMSAT's participation in the upcoming WARC - 92 proceedings.

WA3NAN, the Goddard Space Flight Center radio club retransmits the Mode J/L (Mode B nets will not be retransmitted at this time) AMSAT Operations Nets on 147.450 FM for the Washington DC area amateur community. Questions from listeners can be patched from the club repeater (146.835 -) to AO-13 for the net.

For information on the amateur satellite program and how you can participate, contact AMSAT-NA Headquarters at P.O. Box 27, Washington, DC 20044, phone (301) 589-6062, or contact your local AMSAT Area Coordinator.

/EX

SB ALL @ AMSAT \$ANS-061.04

AO-13 TRANSPONDER SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 061.04 FROM AMSAT HQ
SILVER SPRING, MD MARCH 2, 1991
TO ALL RADIO AMATEURS BT

AO-13 Winter Schedule, AO-10 No Longer Available

AO-13 TRANSPONDER SCHEDULE

Mode-B : MA 060 to MA 165 |
Mode-JL: MA 165 to MA 190 |
Mode-LS: MA 190 to MA 195 |
Mode-S : MA 195 to MA 200 | <= Mode B is Off - no swishing!
Mode-BS: MA 200 to MA 205 | <= QRP on BS please.
Mode-B : MA 205 to MA 256 |
Omnis : MA 240 to MA 060 |

This schedule is expected to continue through 27 March 91

The command team requests that you make a specific effort to use QRP on Mode B between MA 200 to 205. This is specifically to help those people who are experimenting with Mode S.

AO-13 SOLAR ECLIPSE BY THE MOON

Oscar-13 is expected to experience an eclipse of the Sun by the Moon observable from most of the Northern hemisphere. Look for a drop in solar panel temperatures and battery voltage. Transponders OFF MA 165-205. (0746-0933 utc).

Date	UTC Start	UTC End	DUR min	Orbit No.	MA/256 Start End	Max Obsc	Sun Angle
1991 Mar 16 [Sat]	0845	0922	37	2107	187 201	51%	-30

SPACECRAFT ATTITUDE PREDICTIONS FOR AO-13:

DATE	BLON	BLAT	
1991 Mar 03	208.7	-1.5	
1991 Mar 10	208.8	-1.4	
1991 Mar 17	209.0	-1.2	
1991 Mar 24	209.1	-1.1	Move towards 180/0 begins March 25.

OSCAR-10's beacon and transponder signals began FMing 2 weeks ago. Depending on user activity it continued to support some Mode-B transponder operations at that time. Currently, OSCAR-10 is obviously no longer receiving sufficient solar panel illumination to support even the beacon much less alone the transponder. PLEASE DO NOT attempt to use OSCAR-10 until further notice. This period of dormancy is expected to last for approximately 3 months. As soon as OSCAR-10 can support Mode-B transponder operations it will once again be released for general use. Early reports of OSCAR-10's beacon returning to full strength can be sent to VK5AGR @ PACSAT-1, @ UOSAT-3, @ 8J1JBS, or @ VK5WI. 73, Graham VK5AGR

/EX

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Gary W. Sanders (gws@n8emr or ...!osu-cis!n8emr!gws), 72277,1325
N8EMR @ W8CQK (ip addr) 44.70.0.1 [Ohio AMPR address coordinator]
HAM BBS (1200/2400/9600/V.32/PEP/MNP=L5) 614-895-2553
Voice: 614-895-2552 (eves/weekends)

Date: 4 Mar 91 00:28:36 GMT
From: n8emr!gws@tut.cis.ohio-state.edu (Gary Sanders)
Subject: AMSAT ORBITAL ELEMENTS
To: info-hams@ucsd.edu

=====
| Relayed from AMSAT BBS NETWORK |
| N8EMR's Ham BBS, 614-895-2553 1200/2400/9600/V.32/PEP/MNP5 |
=====

SB KEPS @ AMSAT \$ORBS-061.0
Orbital Elements 061.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM N3FKV HEWITT, TX March 2, 1991
TO ALL RADIO AMATEURS BT

Satellite: AO-10
Catalog number: 14129
Epoch time: 91055.57882585
Element set: 637
Inclination: 25.8829 deg
RA of node: 158.8436 deg
Eccentricity: 0.5990053
Arg of perigee: 219.9576 deg
Mean anomaly: 75.4840 deg
Mean motion: 2.05878121 rev/day

Decay rate: 8.5e-07 rev/day²
Epoch rev: 2993

Satellite: UO-11
Catalog number: 14781
Epoch time: 91060.09687576
Element set: 927
Inclination: 97.9206 deg
RA of node: 108.8852 deg
Eccentricity: 0.0012012
Arg of perigee: 149.2154 deg
Mean anomaly: 210.9887 deg
Mean motion: 14.66303947 rev/day
Decay rate: 3.301e-05 rev/day²
Epoch rev: 37360

Satellite: RS-10/11
Catalog number: 18129
Epoch time: 91059.92188924
Element set: 539
Inclination: 82.9291 deg
RA of node: 138.8645 deg
Eccentricity: 0.0013146
Arg of perigee: 123.4224 deg
Mean anomaly: 236.8239 deg
Mean motion: 13.72152865 rev/day
Decay rate: 4.28e-06 rev/day²
Epoch rev: 18474

Satellite: A0-13
Catalog number: 19216
Epoch time: 91053.11378759
Element set: 239
Inclination: 56.8252 deg
RA of node: 109.0878 deg
Eccentricity: 0.7128019
Arg of perigee: 247.8593 deg
Mean anomaly: 26.4295 deg
Mean motion: 2.09703733 rev/day
Decay rate: -1.26e-06 rev/day²
Epoch rev: 2064

Satellite: F0-20
Catalog number: 20480
Epoch time: 91058.44079657
Element set: 187
Inclination: 99.0189 deg
RA of node: 61.4649 deg

Eccentricity: 0.0540905
Arg of perigee: 190.0970 deg
Mean anomaly: 168.8902 deg
Mean motion: 12.83170741 rev/day
Decay rate: 1.5e-07 rev/day^2
Epoch rev: 4948

Satellite: A0-21
Catalog number: 21087
Epoch time: 91060.28192998
Element set: 16
Inclination: 82.9466 deg
RA of node: 313.5746 deg
Eccentricity: 0.0034240
Arg of perigee: 198.7185 deg
Mean anomaly: 161.2717 deg
Mean motion: 13.74345653 rev/day
Decay rate: 1.65e-06 rev/day^2
Epoch rev: 420

Satellite: RS-12/13
Catalog number: 21089
Epoch time: 91059.03611006
Element set: 22
Inclination: 82.9245 deg
RA of node: 184.9954 deg
Eccentricity: 0.0028075
Arg of perigee: 222.7862 deg
Mean anomaly: 137.1130 deg
Mean motion: 13.73861316 rev/day
Decay rate: 2.05e-06 rev/day^2
Epoch rev: 315

/EX

SB KEPS @ AMSAT \$ORBS-061.D
Orbital Elements 061.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM N3FKV HEWITT, TX March 2, 1991
TO ALL RADIO AMATEURS BT

Satellite: U0-14
Catalog number: 20437
Epoch time: 91058.71776629
Element set: 307
Inclination: 98.6772 deg
RA of node: 138.8129 deg
Eccentricity: 0.0011646

Arg of perigee: 124.9257 deg
Mean anomaly: 235.3150 deg
Mean motion: 14.28918095 rev/day
Decay rate: 9.16e-06 rev/day²
Epoch rev: 5735

Satellite: A0-16

Catalog number: 20439
Epoch time: 91059.66991119
Element set: 202
Inclination: 98.6802 deg
RA of node: 140.0226 deg
Eccentricity: 0.0012384
Arg of perigee: 123.1338 deg
Mean anomaly: 237.1038 deg
Mean motion: 14.29016114 rev/day
Decay rate: 9.92e-06 rev/day²
Epoch rev: 5749

Satellite: D0-17

Catalog number: 20440
Epoch time: 91059.65616971
Element set: 201
Inclination: 98.6806 deg
RA of node: 140.0431 deg
Eccentricity: 0.0012003
Arg of perigee: 123.1299 deg
Mean anomaly: 237.1040 deg
Mean motion: 14.29083383 rev/day
Decay rate: 1.077e-05 rev/day²
Epoch rev: 5749

Satellite: W0-18

Catalog number: 20441
Epoch time: 91060.12024133
Element set: 200
Inclination: 98.6817 deg
RA of node: 140.5536 deg
Eccentricity: 0.0013150
Arg of perigee: 122.9723 deg
Mean anomaly: 237.2736 deg
Mean motion: 14.29151065 rev/day
Decay rate: 9.58e-06 rev/day²
Epoch rev: 5756

Satellite: L0-19

Catalog number: 20442
Epoch time: 91059.68037826

Element set: 201
Inclination: 98.6802 deg
RA of node: 140.1568 deg
Eccentricity: 0.0013164
Arg of perigee: 123.5426 deg
Mean anomaly: 236.7021 deg
Mean motion: 14.29225076 rev/day
Decay rate: 9.60e-06 rev/day^2
Epoch rev: 5750

/EX

SB KEPS @ AMSAT \$ORBS-061.W
Orbital Elements 061.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM N3FKV HEWITT, TX March 2, 1991
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 91060.00671138
Element set: 707
Inclination: 99.1729 deg
RA of node: 70.9190 deg
Eccentricity: 0.0015357
Arg of perigee: 11.9560 deg
Mean anomaly: 348.1977 deg
Mean motion: 14.12848339 rev/day
Decay rate: 1.423e-05 rev/day^2
Epoch rev: 32024

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 91053.88031523
Element set: 552
Inclination: 98.5765 deg
RA of node: 80.9476 deg
Eccentricity: 0.0012373
Arg of perigee: 260.5624 deg
Mean anomaly: 99.4157 deg
Mean motion: 14.23917603 rev/day
Decay rate: 1.416e-05 rev/day^2
Epoch rev: 23028

Satellite: MET-2/17
Catalog number: 18820
Epoch time: 91059.98965918
Element set: 458

Inclination: 82.5478 deg
RA of node: 146.3224 deg
Eccentricity: 0.0016063
Arg of perigee: 328.5459 deg
Mean anomaly: 31.4741 deg
Mean motion: 13.84440764 rev/day
Decay rate: 6.62e-06 rev/day^2
Epoch rev: 15571

Satellite: MET-3/2
Catalog number: 19336
Epoch time: 91060.06448328
Element set: 709
Inclination: 82.5440 deg
RA of node: 95.7138 deg
Eccentricity: 0.0018732
Arg of perigee: 33.0749 deg
Mean anomaly: 327.1551 deg
Mean motion: 13.16913552 rev/day
Decay rate: 5.2e-07 rev/day^2
Epoch rev: 12476

Satellite: NOAA-11
Catalog number: 19531
Epoch time: 91058.30885065
Element set: 462
Inclination: 99.0168 deg
RA of node: 12.3710 deg
Eccentricity: 0.0011035
Arg of perigee: 288.3921 deg
Mean anomaly: 71.6050 deg
Mean motion: 14.11942725 rev/day
Decay rate: 1.429e-05 rev/day^2
Epoch rev: 12496

Satellite: MET-2/18
Catalog number: 19851
Epoch time: 91060.02883357
Element set: 408
Inclination: 82.5266 deg
RA of node: 23.8250 deg
Eccentricity: 0.0015151
Arg of perigee: 10.4016 deg
Mean anomaly: 349.7467 deg
Mean motion: 13.84062106 rev/day
Decay rate: 1.14e-06 rev/day^2
Epoch rev: 10109

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 91060.06321791
Element set: 321
Inclination: 82.5481 deg
RA of node: 36.8210 deg
Eccentricity: 0.0016945
Arg of perigee: 47.5625 deg
Mean anomaly: 312.6925 deg
Mean motion: 13.15939904 rev/day
Decay rate: 4.3e-07 rev/day²
Epoch rev: 6473

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 91060.04042831
Element set: 157
Inclination: 82.5447 deg
RA of node: 84.7912 deg
Eccentricity: 0.0014873
Arg of perigee: 292.0976 deg
Mean anomaly: 67.8617 deg
Mean motion: 13.83917254 rev/day
Decay rate: 2.03e-06 rev/day²
Epoch rev: 3404

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 91059.60484625
Element set: 102
Inclination: 98.9495 deg
RA of node: 95.3326 deg
Eccentricity: 0.0016451
Arg of perigee: 118.3792 deg
Mean anomaly: 241.9053 deg
Mean motion: 14.01053738 rev/day
Decay rate: 7.74e-06 rev/day²
Epoch rev: 2500

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 91059.93798480
Element set: 107
Inclination: 82.5248 deg
RA of node: 23.9742 deg
Eccentricity: 0.0012545
Arg of perigee: 178.3513 deg
Mean anomaly: 181.7700 deg

Mean motion: 13.83276374 rev/day
Decay rate: 2.21e-06 rev/day^2
Epoch rev: 2124

/EX

SB KEPS @ AMSAT \$ORBS-061.M
Orbital Elements 061.MISC

HR AMSA{T_ ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM N3FKV HEWITT, TX March 2, 1991
TO ALL RADIO AMATEURS BT

Satellite: MIR
Catalog number: 16609
Epoch time: 91060.12358103
Element set: 290
Inclination: 51.6075 deg
RA of node: 115.0938 deg
Eccentricity: 0.0013929
Arg of perigee: 353.8174 deg
Mean anomaly: 6.2465 deg
Mean motion: 15.62409428 rev/day
Decay rate: 5.2813e-04 rev/day^2
Epoch rev: 28824

Satellite: HUBBLE
Catalog number: 20580
Epoch time: 91060.25543000
Element set: 400
Inclination: 28.4701 deg
RA of node: 51.9891 deg
Eccentricity: 0.0006132
Arg of perigee: 268.6369 deg
Mean anomaly: 91.3497 deg
Mean motion: 14.86465979 rev/day
Decay rate: 9.846e-05 rev/day^2
Epoch rev: 4623

/EX

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Gary W. Sanders (gws@n8emr or ...!osu-cis!n8emr!gws), 72277,1325
N8EMR @ W8CQK (ip addr) 44.70.0.1 [Ohio AMPR address coordinator]
HAM BBS (1200/2400/9600/V.32/PEP/MNP=L5) 614-895-2553
Voice: 614-895-2552 (eves/weekends)

Date: 3 Mar 91 22:37:56 GMT

From: elf.rice.edu!djg@rice.edu (David J. Grimme)
Subject: Ham Radio Recommendations, FAQ list
To: info-hams@ucsd.edu

I have read with interest the articles here about different radios, but I have not seen (in the last year or so) a FAQ list with recommendations about specific radios. I am planning on getting the no-code technician license soon and want to get a ham radio shortly thereafter. I ordered catalogs from a couple of places, but I don't know what to look for in a ham radio yet. Any pointers to a FAQ list or suggestions about radios would be appreciated. Also, what are the most useful/popular/common bands on which hams communicate above 30Mhz that are available to no-code techs and what are they usually used for? Cost is not much of an object to me. I'd rather get a fairly good radio to start, than to have to upgrade soon.

Thanks,

--

David J. Grimme
djg@owlnet.rice.edu
dgrim00@ricevm1.edu

--

David J. Grimme
djg@owlnet.rice.edu
dgrim00@ricevm1.edu

Date: 3 Mar 91 19:15:36 GMT
From: elf.rice.edu!djg@rice.edu (David J. Grimme)
Subject: Ham Radio Suggestions (was Re: Kenwood TH-27A)
To: info-hams@ucsd.edu

I have read with interest the articles here about different radios, but I have not seen (in the last year or so) a FAQ list with recommendations about specific radios. I am planning on getting the no-code technician license soon and want to get a ham radio shortly thereafter. I ordered catalogs from a couple of places, but I don't know what to look for in a ham radio yet. Any pointers to a FAQ list or suggestions about radios would be appreciated. Also, what are the most useful/popular/common bands on which hams communicate above 30Mhz that are available to no-code techs and what are they usually used for? Cost is not much of an object to me. I'd rather get a fairly good radio to start, than to have to upgrade soon.

Thanks,

--

David J. Grimme
djg@owl.net.rice.edu
dgrim00@ricevm1.edu

Date: 3 Mar 91 23:24:53 GMT
From: csus.edu!beach.csulb.edu!mosbrook@ucdavis.ucdavis.edu (Brent Mosbrook)
Subject: HF recommendations
To: info-hams@ucsd.edu

I am just getting interested in HF, and am contemplating which rig/antenna to get. I am restricted by CC&R's to no external antenna, but have ample room in the attic. I was thinking about a Butternut H5 on a small rotator, any comments? also, I am mainly interested in 10m and SWL, no CW, but would like to keep my options open. I have heard alot about the Icom 735 and the kenwood 440, but not much about Yaesu... are these considered junk? like the 747??

any info would be greatly appreciated!

Brent Mosbrook KC6MWK mosbrook@beach.csulb.edu

Date: 3 Mar 91 18:12:19 GMT
From: brahms.udel.edu!moyer@louie.udel.edu (Eric Moyer)
Subject: Icom 725 mods wanted...
To: info-hams@ucsd.edu

I'm sure someone out there has a list of diode cutting modifications which can be made to the icom 725. Can you send me a list?

```
Eric P. Moyer      /----- You are a fluke of the universe. -----/
moyer@brahms.udel.edu /          You have no right to be here.          /
  Into the night as.... /          Whether you can hear it or not,          /
KA3YED on 28.460 MHz /--- The universe is laughing behind your back. -/
```

Date: 3 Mar 91 18:57:36 GMT
From: zaphod.mps.ohio-state.edu!samsung!umich!vela!argo.acs.oakland.edu!
SDKU0@tut.cis.ohio-state.edu (Steve Kuo)
Subject: Looking for mod info on Radio Shack PRO-2022 scanner
To: info-hams@ucsd.edu

In article <530042@hpdmd48.boi.hp.com>, sgothard@hpdmd48.boi.hp.com (Steve Gothard) writes:

> Also I would like the mods for the pro-2006. I already tried removing
> D502 on the front panel and it gives back 800Mhz stuff but what does
> D504 do? I hear the unit can be modified to scan faster and to have
> up to 1600 channels. Any help would be appreciated. I remember reading
> about these mods here before but that was before I bought my unit.
> Steve Gothard
> Hewlett Packard
> Designing Laserjets for Bill and Dave

Wow, they are up to the PR02006 now? How is the PR02006 different than the PR02004/5?

Here are some modifications for the PR02004 and PR02005. Maybe this will help you.

- o Restoring the missing 800 Mhz frequencies.
PR0-2004: Clip or remove diode D-513
PR0-2005: Clip of remove diode D-502
- o Speeding up scan rate from 8/16 to 10/20 channels per second.
PR0-2004: Add a diode where D-514 would go. (use IN914 or IN4148).
PR0-2005: Add a diode where D-501 would go. (use IN914 or IN4148).
Note that the PC board may not be labeled D-514. It would go between D-513 and D-515. Same idea goes for the PR0-2005.
- o Speeding up scan rate ever more by crystal replacement method.
First perform the above diode speedup modification. Then replace crystal CX-501 with a 9 or 10 MHz crystal. Note that on some scanners a 10 MHz crystal may be too fast. Some experimentation may be necessary. I got mine to work on the first 10 Mhz crystal I tried.
Also if the new crystal has a metal case, wrap plastic tape around it so it will not make contact with surrounding components.
- o 400 channels for the PR0-2004.
Add a diode where D-510 would go. (use IN914 or IN4148)
Poof! You now have 400 channels just like a PR0-2005.
- o For more modifications on the PR0-2004/5 including 6400 channel mod, purchase (or borrow) the book "Scanner Modification Handbood" by Bill Cheek. Available for \$20 from CRB Research Books, Inc., PO Box 56, Commack, NY, 11725.
- o To answer your question about D-504. If D-504 were removed, it will delete 66-88 MHz converage.

Hope this helps,

Steven D. Kuo
sdkuo@argo.acs.oakland.edu
sdkuo@sycom.UUCP

Oakland University, Rochester, Michigan, USA
"Go Green, Go MSU"

Date: 4 Mar 91 05:46:21 GMT
From: hkn@louie.udel.edu (Eta Kappa Nu)
Subject: MODS FTP SITES
To: info-hams@ucsd.edu

Dear Netters,

I read a while ago somebody posted a Raddio Mods FTP site
using anonymous login. If you have that information pse posted again or
sen me an e-mail.

Best,
Adi

Date: 4 Mar 91 01:08:11 GMT
From: n8emr!gws@tut.cis.ohio-state.edu (Gary Sanders)
Subject: PROPAGATION FORECAST BULLETIN 7 ARLP007
To: info-hams@ucsd.edu

=====
| Relayed from packet radio via |
| N8EMR's Ham BBS, 614-895-2553 1200/2400/9600/V.32/PEP/MNP5 |
=====

ZCZC AP63
QST DE W1AW
PROPAGATION FORECAST BULLETIN 7 ARLP007
FROM TAD COOK, KT7H
SEATTLE, WA MARCH 2, 1991
TO ALL RADIO AMATEURS

THE PAST WEEK FEATURED THE RETURN OF THE SUNSPOT GROUP THAT CAUSED
THE BIG INCREASE IN SOLAR FLUX AT THE END OF JANUARY. UNFORTUNATELY
FOR HF USERS, THE RETURN APPEARANCE OF THIS GROUP DID NOT BRING BACK
THE DRAMATIC CONDITIONS OF A MONTH AGO.

ON JANUARY 30 THE FLUX PEAKED AT 367, AND 25 DAYS LATER IT REACHED

311. NOT ONLY WAS THE PEAK OF FEBRUARY 24 DRAMATICALLY LOWER THAN IN THE PREVIOUS SOLAR ROTATION, TOWARD THE END OF THIS WEEK THERE HAS BEEN A SLIGHT RISE IN THE K AND A INDICES. AN INCREASE IN THESE INDICES MEANS POORER CONDITIONS, ESPECIALLY ON HIGH LATITUDE PATHS. LOWER LATITUDES ARE LESS AFFECTED, AND TRANSEQUATORIAL CONDITIONS MAY EVEN BE ENHANCED IF THE K INDEX RISES TO 4 OR HIGHER, ESPECIALLY ON 10 AND 6 METERS.

FOR THE ARRL DX CONTEST WEEKEND, LOOK FOR A FALLING SOLAR FLUX, POSSIBLY BELOW 200, WITH A INDICES BETWEEN 12 AND 15. CONTESTERS CAN STILL BE GRATEFUL FOR GOOD CONDITIONS EVEN THOUGH THEY ARE NOT QUITE WHAT WE EXPERIENCED A MONTH AGO. CONDITIONS OVER THE FORECAST WEEK SHOULD BE GOOD, WITH LOW TO MODERATE SOLAR ACTIVITY AND VERY LITTLE PROBABILITY OF MAJOR FLARES. LATE IN THE WEEK THE FLUX MAY DROP TO AROUND 160 OR 170, ABOUT 200 POINTS LOWER THAN IT WAS ONLY A MONTH AGO.

AMERICAN SUNSPOT NUMBERS FOR FEBRUARY 21 THROUGH 27 WERE 197, 194, 175, 170, 143, 147 AND 126 RESPECTIVELY, WITH A MEAN FIGURE OF 164.6.

NNNN

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Gary W. Sanders (gws@n8emr or ...!osu-cis!n8emr!gws), 72277,1325
N8EMR @ W8CQK (ip addr) 44.70.0.1 [Ohio AMPR address coordinator]
HAM BBS (1200/2400/9600/V.32/PEP/MNP=L5) 614-895-2553
Voice: 614-895-2552 (eves/weekends)

End of Info-Hams Digest
